

BAR-ILAN UNIVERSITY
Department of Management
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SUPPLY CHAIN MANAGEMENT

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Course Description

Supply chain management has become a main driver for corporate economic performance. This course is designed to cover some practical issues in supply chain management. We will mainly cover four topics: the supply chain inefficiencies and their remedies, the optimal level of product availability, transportation decisions in the supply chain, and the design of a network in a supply chain. Each session will provide with simple analytical framework to optimize supply chain management decision-making.

Class Format

Class sessions involve a mix of lectures and applications. During the first session, the main point will be to understand the very nature of supply chain management. During the three subsequent sessions, the first part of the course will be devoted to a formal presentation of a specific methodology. The students will then be expected to make computerized applications. The last session will focus on a case study.

Evaluation

Grades will be based on the quality of the applications related to the second, third and fourth sessions (3 x 25%), and participation to the case study (25%).

Session 1: Supply chain inefficiencies and remedies

In this session, we identify the main supply chain's inefficiencies and explain how the corporate performance may be improved by supply chain coordination initiatives.

Session 2: Optimal level of product availability

In this session, we determine the optimal level of product availability in a supply chain. We also identify trade-offs that should be considered when dealing with product availability.

Session 3: Transportation issues in the supply chain

In this session, we explain how transportation decision-making should take into account supply chain issues. We also provide with methodologies for routing in transportation networks.

Session 4: The design of a supply chain network

In this session, we develop a framework for optimizing network design decisions. The framework will prove to be useful to solving various network issues as facility location and capacity allocation decision.

Session 5: Case study - The Poseidon adventure

Small groups of students will be assigned the design of a supply chain policy project during the first part of the session. A brief presentation of the project to the class is scheduled for the second part of the session.

References

- SIMCHI-LEVI, D., KAMINSKY, P., & SIMCHI-LEVI, E. – Designing and Managing the Supply Chain: Concepts, Strategies, and Case Studies, Mc Graw-Hill International Edition, 2008, 3rd edition.
- CHOPRA, S. & MEINDL, P. – Supply Chain Management: Strategy, Planning and Operations, Pearson, 2004, 2nd edition.